wherever construction calls for quality...

CHALLENGER
locks

CHALLENGER

PROVIDES A LOCK FOR

and an elaborate array of outstanding escutcheons for a wide choice of combinations in lock and trim.

Here are some of the most popular Challenger escutcheons. Their distinctive designs, smart styling and tone of good taste form a fitting background for the Challenger lock selected—whether it be for church, hotel, office building or fine residences. Locks and trim are available in many metal finishes to match any motif.

1701 (For 500 and 800 series). **17019** (For 900 series). Wrought. 6⅝" dia. Min. backset 5". Pictured in polished brass with Sapphire knob.

1715 (For 500 and 800 series). **17159** (For 900 series). Wrought. 5½" sq. Min. backset 5". Pictured in dull bronze with Holiday knob.

1750 (For 500 and 800 series). **17509** (For 900 series). Wrought. 5½" dia. Min. backset 5". Pictured in satin anodized aluminum with Holiday knob.

1704 (For 500 and 800 series with 2½" roses). Wrought. 3¾" dia. Min. backset 2⅜". Pictured in polished brass with Venus knob.

1714 (For 500 and 800 series with 2½" roses). Wrought. 3¾" sq. Min. backset 2⅜". Pictured in polished brass with Venus knob.

EVERY DOOR

Left Hand Right Hand

1702 (For 500 and 800 series). **17029** (For 900 series). Wrought. 6″ x 9″. Min. backset 5″. Pictured in dull bronze with Holiday knob. (Specify left or right hand when ordering).

1712 (For 800 series). **17129** (For 900 series). Cast. 8⅜″ x 12″. Threaded. Min. backset 5″. Pictured in polished brass with Sapphire knob.

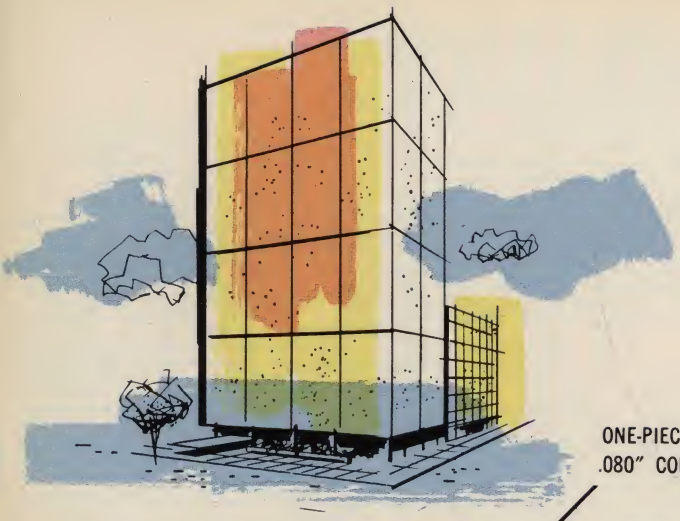
1716 (For 500 and 800 series with 2½″ roses). Wrought. 3½″ x 7½″. Min. backset 2⅜″. Pictured in polished brass with Holiday knob.

1707 (For 800 series). **17079** (For 900 series). Cast. 4¼″ x 7″. Threaded. Min. backset 2¾″. Pictured in satin anodized aluminum with Concave knob.

1709 (For 500 and 800 series with 2½″ roses). Wrought. 7⅜″ x 9″. Min. backset 5″. Pictured in dull bronze with Holiday knob.

1722 (For 800 series).) **17229** (For 900 series). Cast. 8″ dia. Threaded. Min. backset 5″. Pictured in dull bronze with Thor knob.

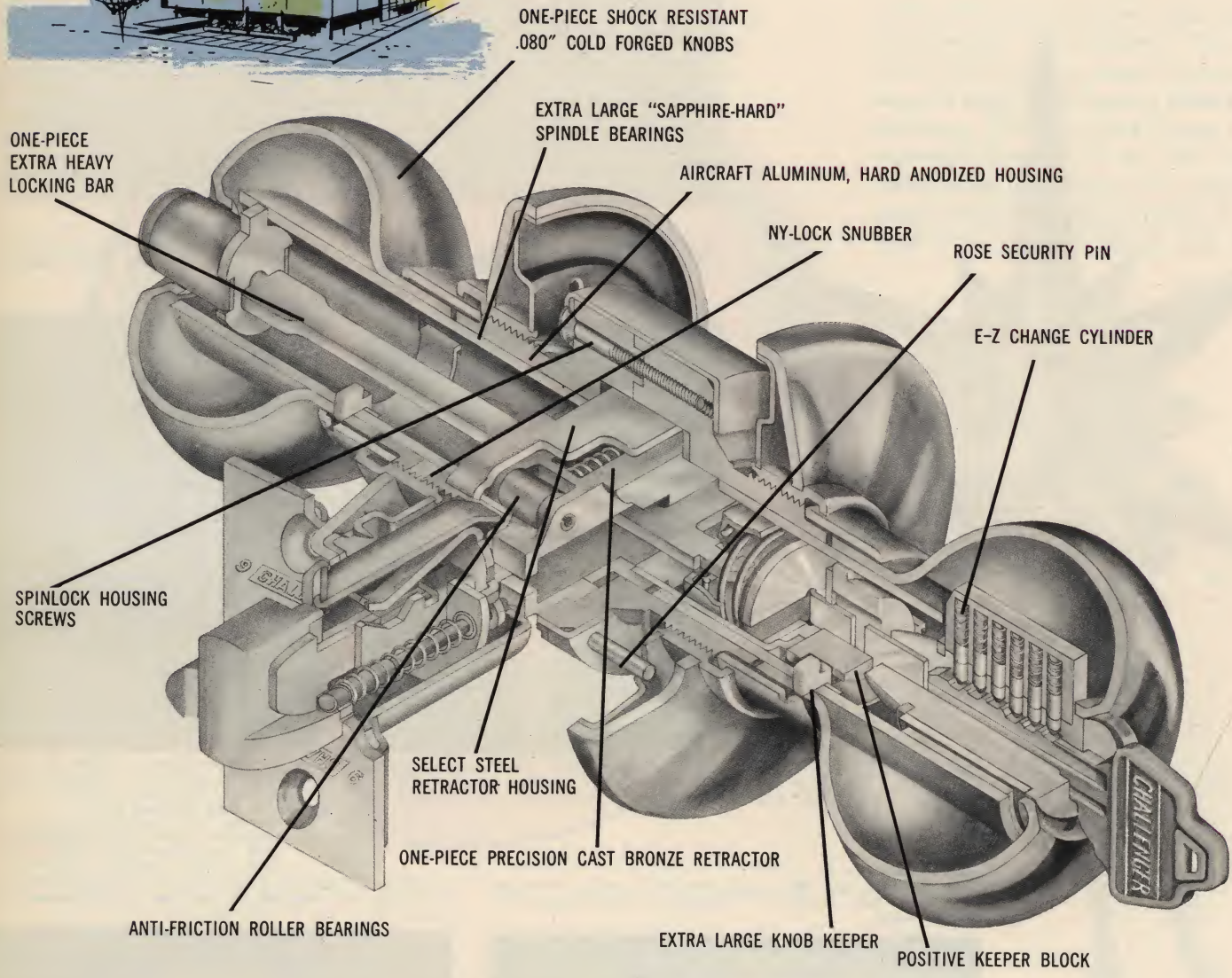
1730 (For 500 and 800 series). **17309** (For 900 series). Wrought. 5½″ dia. Min. backset 5″. Pictured in dull brass with Concave knob.



CHALLENGER

900 SERIES

the smoothest lockset ever built



SPECIFICATIONS FOR CHALLENGER 900 SERIES MODEL "C"

heavy-duty cylindrical locks and latches for commercial and industrial buildings for doors 1⅜" to 2¼" thick

CYLINDRICAL HOUSING: Hard anodized (Sanford process) pressure cast aircraft aluminum with brass case 2 1/16" diameter for 2⅛" hole in door.

BACKSET: 2¾" standard, 5" or greater when specified.

FRONT: Wrought brass or bronze 2¼" x 1⅛" beveled ⅛" in 2". Flat front when specified.

STRIKE: 2¾" x 1⅛" with curved lip 1¼" to center and attached wrought box. Other lengths of lip to order.

LATCH BOLT UNIT: Steel zinc plated, dichromated 15/16" diameter for 1" hole in edge of door. Solid brass or nickel silver latch bolt with ½" throw. ¾" throw when so ordered. Deadlocking latchbolt where indicated by type.

KNOB SPINDLE BEARINGS: .950" diameter. Sapphire-hard surfaced. Length of bearing 1⅛". for each knob.

ROSE ATTACHMENT: Threaded roses. Outer rose held firm by security pin. Inner rose by Nylock anti-loosening device.

MATERIAL: Brass, bronze or aluminum trim. All steel parts zinc plated and dichromated. Aluminum housings hard anodized (Sanford process).

CYLINDER: 6 pin tumbler extruded brass.

meets the requirements of federal specifications FF-H-106a series 161.

HEAVY DUTY LOCK MODEL "C"

There is no other lock—anywhere—to compare with the new Challenger 900 Model C.

Years-ahead design and advanced construction techniques have resulted in the development of a commercial lock that is heavier, smoother in operation, and more durable than ever before obtainable.

It is a piece of precision equipment exactingly engineered. Rigid manufacturing standards and constant quality control assure architect and builder that whenever a Challenger "900" is specified, the installation will reflect the ultimate in quality, and provide service and dependability unequaled by any other lock in the world.

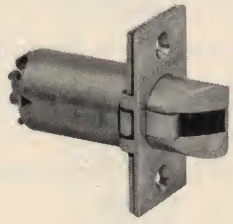
BACKSET LINKS

When it is desirable to move the knob toward the center of the door it can be done easily by adding a backset link to the standard latch unit. These are available to give a standard backset from the edge of the door of 5", 7", 10", 18" or 21". Special sizes are also available.

Catalog #901

LATCHBOLT—¾" THROW

Underwriters approved for firedoors. If ¾" throw is desired, add ¾ to lock number; ie: 900S ¾.



FIESTA design — .080" cold forged knob and rose. 2¼" knob. 3" dia. rose. 2 5/16" projection. Pictured in polished brass finish.

THOR design — Solid bar stock machined knob. .080" cold forged rose. 2¼" knob. 3" dia. rose. 2 1/16" projection. Pictured in dull bronze finish.

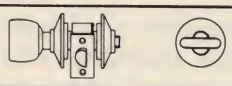
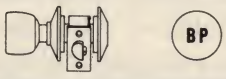
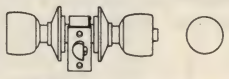
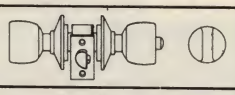
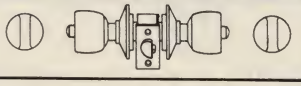
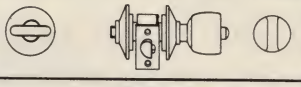
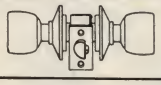
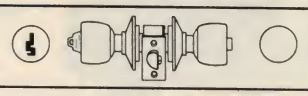
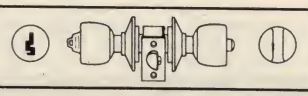
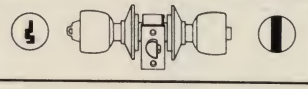
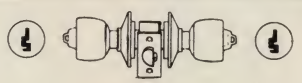
ATLAS design — .080" cold forged knob and rose. 2¼" knob. 3 " sq. rose. 2 5/16" projection. Pictured in polished brass finish.

SAPPHIRE design — Solid bar stock machined knob. .080" cold forged rose. 2¼" knob. 3" rose. 2 5/16" projection. Pictured in dull bronze finish.

HERCULES design — .080" cold forged knob and rose. 2¼" knob. 3 " sq. rose. 2 1/16" projection. Pictured in dull chrome plated finish.

REGENT design — .080" cold forged knob and rose. 2¼" knob. 3" dia. rose. 2 1/16" projection. Pictured in polished brass finish.

TO SIMPLIFY YOUR SELECTION... CHALLENGER

RECOMMENDED USE	Residential 500 Series Cat. No.	Semi-Heavy Duty 800 Series Cat. No.	Semi-Heavy Duty 800 Series Fed. Spec. 160-	Heavy Duty 900 Series Cat. No.	Heavy Duty 900 Series Fed. Spec. 161-	Inner knobs always free (X) Dead-locking latch (✓)	LOCK OUTLINE OUTSIDE INSIDE (SEE SYMBOLS BELOW)	FUNCTION
NON KEYED OPERATION LOCKSETS AND LATCHSETS								
Passage Latch For doors not required to be locked.	500S	800S	N	900S	N	X		Both knobs always free. Spring latch.
Closet Latch For closets not required to be locked.	503S (Formerly 520)	803S		903S		X		Knob & thumb turn always free. Spring latch.
Exit Latch For exits, twin communicating or pipe shaft doors (formerly 02D).		804D		904D		✓		Knob always free. Blank plate inside.
Privacy Lock For bathroom, bedroom or other doors requiring privacy.	510S (510S Locked by turn button)	810S	L	910S	L	X		Locked by push button. Released by coin or other object. Automatically releasing spring latch.
Communicating Privacy Lock For communicating bathroom doors.		810ST		910ST		X		Locked by push button. Released by turn button. Automatically releasing spring latch.
Communicating Lock For connecting doors.		812D	M			✓		Turn button in either knob locks or unlocks both knobs.
Inner Office Lock For doors requiring locking only when occupied.		820D	P	920D	P	X ✓		Push button locking. Automatic latch release.
Exit Lock For exit doors not requiring a key.	530D	830D	Q	930D	Q	X ✓		Turn button locking.
Communicating Lock For communicating doors.				931D	M	✓		Turn button in either knob locks or unlocks opposite knob.
Twin Communicating Lock For twin communicating doors.		833D		933D		X ✓		Turn button locks thumb turn.
Exit Latch For permanently locked exit doors.		840D	NX	940D	NX	X ✓		Outside knob always rigid.
KEYED OPERATION LOCKSETS								
Office Lock For office doors		850DC 850DE 850DZ	B — —	950DP	B	X ✓		Key unlocks when locked by push button.
Dormitory Lock For public restroom or dormitory bedroom doors.		855DC 855DE 855DZ	B Mod. — —	955DP	T	X ✓		Key locks or unlocks outside knob, also locked by push button. Automatic latch release.
Exterior Lock For entrance or office doors.	560DK	860DC 860DE 860DZ	A — —	960DP	A	X ✓		Key unlocks when locked by turn button.
Exterior Lock For entrance or office doors.		870DC 870DE 870DZ		970DP		X ✓		Key unlocks when locked by dual purpose button. Outer knob fixed by rotating button.
Entrance Lock For vestibules, office building restrooms, or apartment house entrance doors.		871DC 871DE		971DP	C	X ✓		Entrance by key in outside knob when locked by key in inside knob.
With hold-back feature.		871DCHB 871DEHB		971DPHB		X ✓		Same as above except key in inside knob can also hold latch bolt retracted.

KNOB SYMBOLS AND LOCKING OPERATIONS

PUSH BUTTON

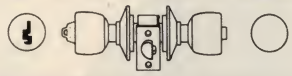
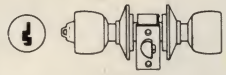
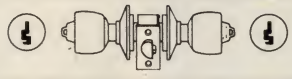
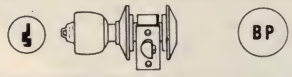
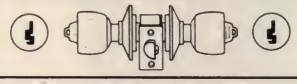
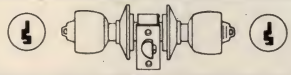
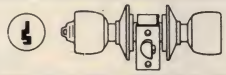
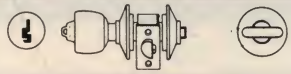
The Push Button provides a non lock-out feature which unlocks automatically when the inside knob is turned.

TURN BUTTON

The Turn Button shows the door is locked when in the horizontal position, or unlocked in the vertical position. This button must be rotated manually to lock or unlock.

SPECIFY CATALOG NUMBER, DESIGN AND FINISH

CHART OF LOCK FUNCTIONS

RECOMMENDED USE	Residential 500 Series	Semi-Heavy Duty 800 Series		Heavy Duty 900 Series		Inner knobs always free (X)	LOCK OUTLINE	FUNCTION
	Cat. No.	Cat. No.	Fed. Spec. 160-	Cat. No.	Fed. Spec. 161-	Dead-locking latch (✓)	OUTSIDE INSIDE (SEE SYMBOLS BELOW)	
Hotel Lock For hotel guest room doors.		872DC 872DE		972DP	H	X ✓		Outside knob rigid. Guest, maid & masterkey unlocks except when locked by shut out button which exposes visual indicator on cylinder, then by emergency key only. Special spanner key rotates button for guest shut out. Automatic latch release.
Communicating Lock For communicating bathroom doors.				975DP	U	✓		Key locks or unlocks both knobs. Also locked by push button. Automatic latch release.
Service Station Lock For public rest room doors where privacy is desired (Formerly 70DAP).		877DC 877DE 877DZ	E — —	977DP	E	X ✓		Key unlocks when locked by dual purpose button. Outer knob fixed by rotating button. Automatic latch release.
Classroom Lock For classroom or utility room doors. With hold-back feature.		880DC 880DE 880DZ 880DCHB 880DEHB	R — —	980DP 980DPHB	R	X ✓ X ✓		Key locks or unlocks outside knob. Same as above except key can also hold latch bolt retracted.
Communicating Lock For communicating or store entrance doors.		881DC 881DE		981DP	S	✓		Key in either knob locks or unlocks its own knob only.
Store Door Lock For store entrance or communicating doors. With hold-back feature.		882DC 882DE 882DCHB 882DEHB		982DP 982DPHB	G	✓ ✓		Key in either knob locks or unlocks both knobs. Same as above except key can also hold latch bolt retracted.
Closet Lock For closet doors.		883DC 883DE 883DZ		983DP		X ✓		Key locks or unlocks outside knob. Thumb turn inside always free.
Cabinet Lock For closets, cabinets or pipe shaft doors.		884DC 884DE 884DZ		984DP		✓		Key locks or unlocks outside knob. Blank plate inside.
Communicating Lock For communicating doors.				985DP	F	✓		Key in either knob locks or unlocks opposite knob.
Institutional Lock For institutional doors.				989DP		✓		Inside knob rigid. Key in outside knob locks or unlocks its own knob only. Exit by key only in inside knob.
Store Room Lock For store room or exit doors.		890DC 890DE 890DZ	D — —	990DP	D	X ✓		Outside knob rigid. Entrance by key only.
Fixed Knob Lock For permanently locked passage doors.		891DC 891DE		991DP	W	✓		Both knobs rigid. Key only in either knob retracts latch bolt.
Closet Lock For key operated utility closet doors.		893DC 893DE 893DZ		993DP		X ✓		Outside knob rigid. Entrance by key only. Thumb turn always free.
Cabinet Lock For key operated closet, cabinet or pipe shaft doors.		894DC 894DE 894DZ		994DP		✓		Outside knob rigid. Entrance by key only. Blank plate inside.
Institutional Lock For institutional doors.				998DP		✓		Outside knob rigid. Key in inside knob locks or unlocks its own knob only. Entrance by key only in outside knob.
Dummy Trim	X500	X800		X900				For pulls and dummy trim.
Working Trim		X800WT		X900WT				For use with mortise locksets.

SHUT OUT BUTTON

The Shut Out Button found in hotel locksets will automatically unlock unless it is rotated by a special spanner key thus shutting out all keys except the Emergency key. The shut out button will not rotate accidentally or without the use of the spanner key.

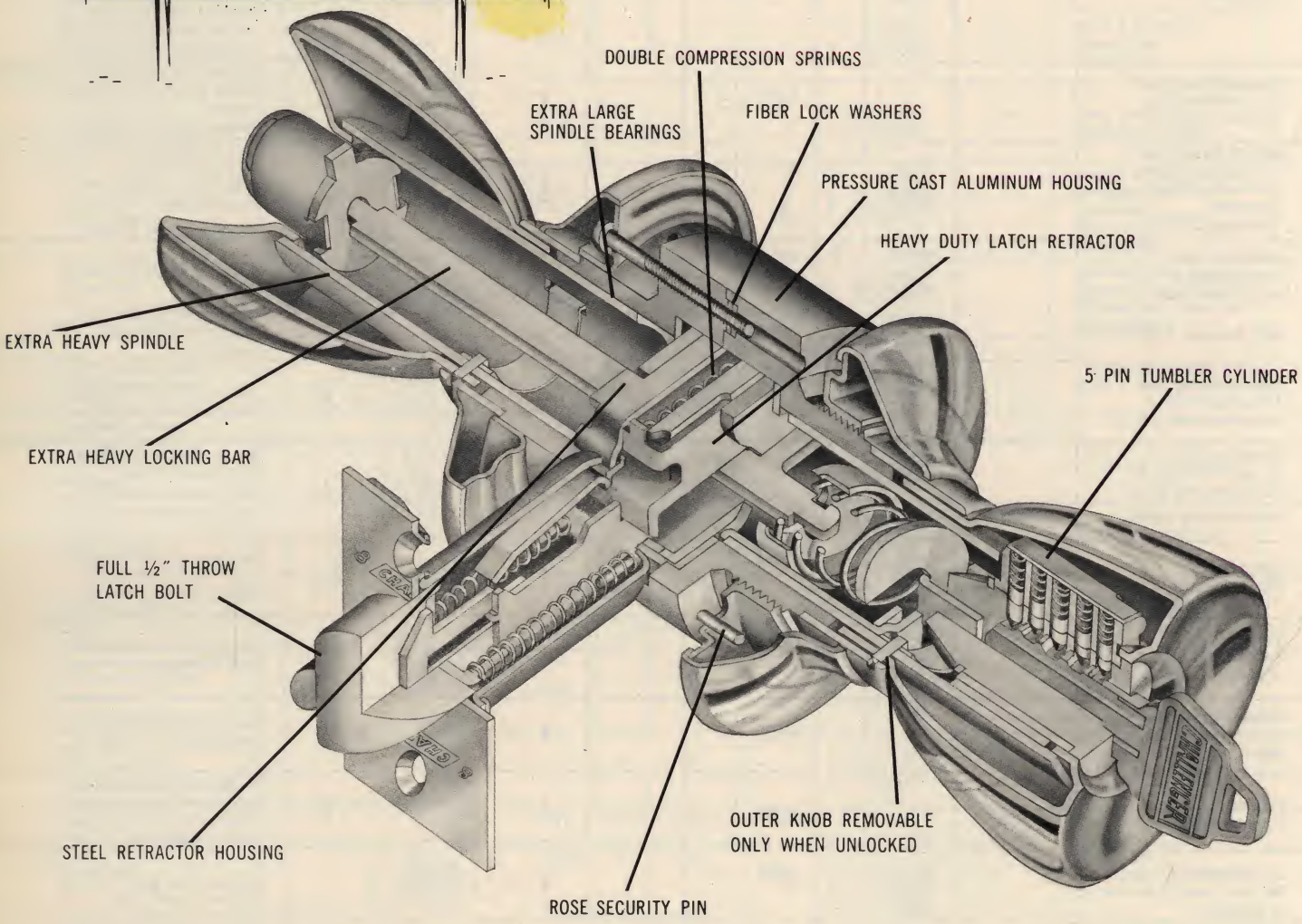
DUAL PURPOSE BUTTON

The Dual Purpose Button combines the convenience of the push button and the security of the turn button. The button will unlock automatically when the slot is in the vertical position or it may be rotated to the horizontal position where it will remain locked until returned manually.

EMERGENCY ACCESS
REGULAR CYLINDER
INDICATOR CYLINDER
THUMB TURN
BP BLANK PLATE

CHALLENGER

800 SERIES



SPECIFICATIONS FOR CHALLENGER 800 SERIES

semi-heavy duty cylindrical latchsets and locksets for doors 1⅜" to 1¾" thick

CYLINDRICAL HOUSING: Pressure cast aircraft aluminum 2 1/16" diameter for 2⅛" hole in door.

BACKSET: 2⅜" standard. 2¾", 5" or greater when specified.

FRONT: Wrought brass, bronze or aluminum. 2¼" x 1" flat front standard. 2¼" x 1⅛" front beveled ⅛" in 2" with 2¾" backset.

STRIKE: Wrought brass or bronze 2¼" x 1 3/16" regularly furnished. 2¾" x 1⅛" with curved lip 1¼" to center and wrought box when so ordered. Other lengths of curved lips to order.

LATCH BOLT UNIT: Steel zinc plated, dichromated 13/16" diameter for ⅞" hole in edge or door. Solid brass or nickel silver latch bolt with ½" throw regularly furnished. ¾" throw when so ordered. Deadlocking latch bolt where indicated by type.

KNOB SPINDLE BEARINGS: .915" diameter. Length of bearing 1" for each knob.

ROSE ATTACHMENT: Outer rose threaded, held firm by security pin. Inner snap-on rose fastened with 2 machine screws. Fiber lock washers prevent loosening of screws.

MATERIAL: Brass, bronze or aluminum trim. All steel parts zinc plated and dichromated.

CYLINDER: 5 pin tumbler furnished in 3 types. 6 pin tumbler type C available when specified.

meets the requirements of federal specifications FF-H-106a, series 160.

SEMI-HEAVY DUTY LOCKS

When design demands a bit more distinction, when construction calls for quality, the finest finishing touch any home can have is a Challenger lock . . . a type for every door.

The quality is obvious at first glance and touch. Well engineered for more years of trouble-free service, Challenger 800 Series Semi-Heavy Duty Locksets present an unbeatable combination of style and security that pleases even the most discriminating buyers.

Challenger's variety of knob designs and metal finishes make it possible to install the 800 series with any type of architecture in fine residential and light commercial construction.

CONCAVE design — Wrought knob and rose. 2″ knob. 2½″ rose. 2⅜″ projection. Pictured in satin anodized aluminum finish.

HOLIDAY design — Wrought knob and rose. 2″ knob. 2½″ rose. 2⅜″ projection. Pictured in polished brass finish.

MARS design — Wrought knob, forged rose. 2¼″ knob. 3⅛″ sq. rose. 2⅛″ projection. Pictured in dull chrome plated finish.

VENUS (METRO) design — Wrought knob and rose.
Venus: 2″ knob. 2½″ rose. 2⅛″ projection.
Metro: 2¼″ knob. 2 13/16″ rose. 2⅛″ projection.
Pictured in dull bronze finish.

BACKSET LINKS

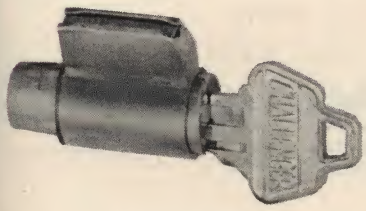
When it is desirable to move the knob toward the center of the door it can be done easily by adding a backset link to the standard latch unit. These are available to give a standard backset from the edge of the door of 5″, 7″, 10″, 18″ or 21″. Special sizes are also available.

Catalog #801

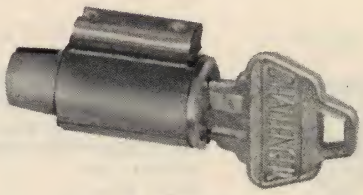
CYLINDERS AVAILABLE IN 800 SERIES

Cat. #	Construction	Plug Dia.
C	Solid brass	.500
E	Solid brass	.450
Z	Zamak	.450

(All have solid brass pins.)



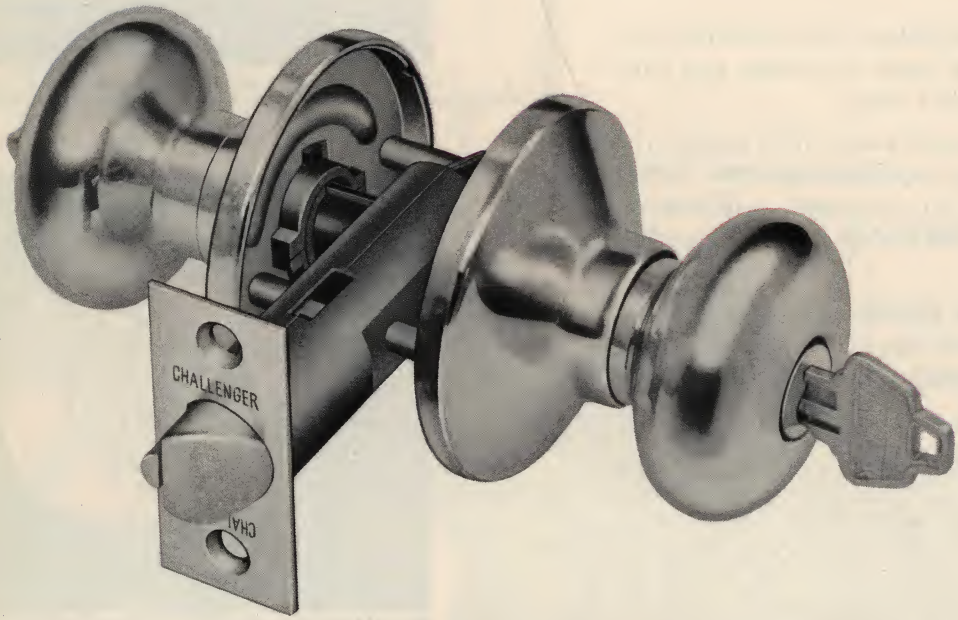
C CYLINDER



E & Z CYLINDER

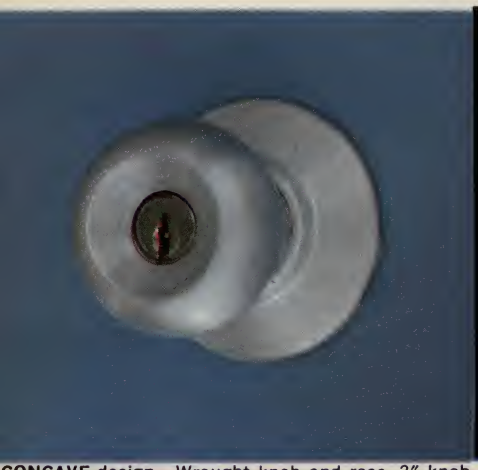
CHALLENGER

500 SERIES
STANDARD DUTY LOCKS



This is the ideal lock for combining security, style and savings. Proved over the years as outstanding for durability in budget building, the Challenger 500 also offers the same smart styling seen in far more costly hardware. Challenger standard escutcheons complement all knob designs in the 500 series.

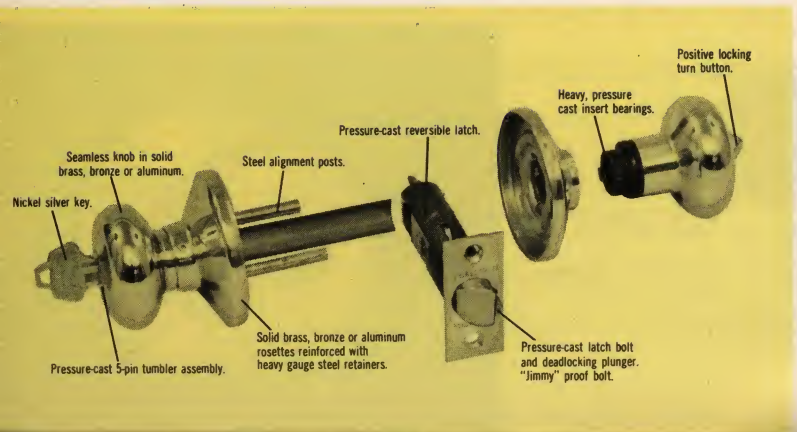
Lock installation is fast and simple with trouble-free service assured.



CONCAVE design—Wrought knob and rose. 2″ knob. 2½″ rose. 2⅜″ projection. Pictured in satin anodized aluminum finish.

HOLIDAY design—Wrought knob and rose. 2″ knob. 2½″ rose. 2⅜″ projection. Pictured in polished brass finish.

VENUS design—Wrought knob and rose. 2″ knob. 2½″ rose. 2⅛″ projection. Pictured in dull bronze finish.


Positive locking turn button.
Heavy, pressure cast insert bearings.
Pressure-cast reversible latch.
Seamless knob in solid brass, bronze or aluminum.
Steel alignment posts.
Nickel silver key.
Solid brass, bronze or aluminum rosettes reinforced with heavy gauge steel retainers.
Pressure-cast latch bolt and deadlocking plunger. "Jimmy" proof bolt.
Pressure-cast 5-pin tumbler assembly.

SPECIFICATIONS FOR CHALLENGER 500 SERIES

self-aligning latch and locksets

KNOBS: Wrought brass, bronze or aluminum. 2″ dia.
ROSETTES: Wrought brass 2½″ dia. Installed with two machine screws.
LATCH CASE: Pressure cast fits ⅞″ dia. hole.
BACKSET: 2⅜″.
FRONT: Brass, 2¼″ x 1″.
BOLT: Pressure cast, ¾″ x 9/16″ x ⅜″ throw.
SPRINGS: Double compresssion — light on latch, heavy on knob.
CYLINDER: 5-pin tumbler.
STRIKE: Brass, curved lip.
MATERIALS: Solid brass, bronze or aluminum trim. All steel working parts cadmium or zinc plated.
OPERATION: According to type. Bathroom and bedroom locks have emergency release from outside.
INSTALLATION: Bore ⅞″ or 1 5/16″ hole for latch, 2⅛″ hole for housing.

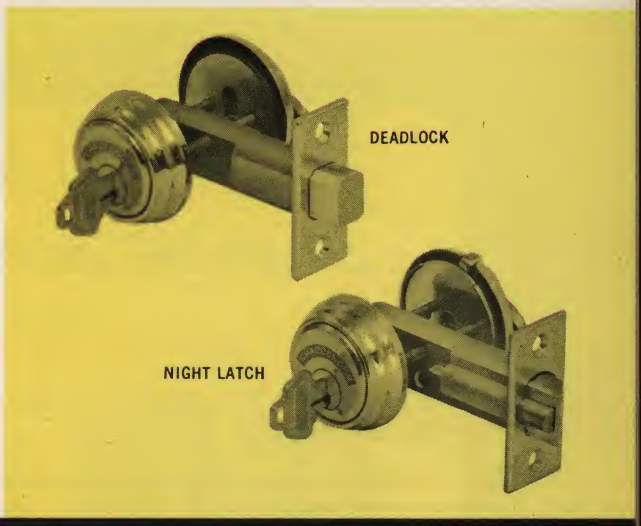
CHALLENGER *offers many*

miscellaneous accessories
for complete installations

DEADLOCKS AND NIGHT LATCHES

Available in brass or bronze

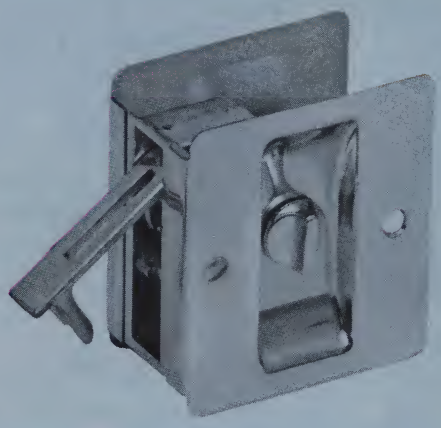
Cat. #		Operation
01	Deadlock	Key from outside. Thumb turn inside will withdraw but not project bolt. Specify door thickness.
1	Deadlock	Key from outside. Thumb turn from inside.
1T	Thumb turn	No cylinder. Thumb turn from inside.
1X	Deadlock	Key from outside. Blank plate inside.
111	Deadlock	Key from both sides.
2	Nightlatch	Key from outside. Thumb turn from inside. Latch bolt held retracted by catch.
2T	Thumb turn	No cylinder. Thumb turn from inside. Latch bolt held retracted by catch.
3	Night dead latch	Key from outside. Thumb turn inside. Deadlocking latch held retracted by catch.



SLIDING DOOR LOCKS AND LATCHES

600 Series. Available in brass, bronze or aluminum.
Adjustable for 1⅜" to 1¾" doors. Reversible.

Cat. # and Description		Operation
600	Combination pull	Blank both sides
601	Privacy lock	Turn button one side, emergency release on other side
602	Patio lock	Turn button one side, blank other side
604	Communicating lock	Turn button both sides
X600	Dummy trim	Flush pulls and dummy trim

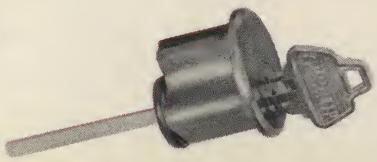


PADLOCKS

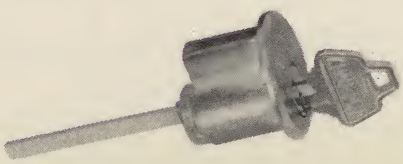
5-pin tumbler. Extruded brass case 2" width x 1⅝" height. Hardened steel shackle 1¼" clearance.

Catalog #1252

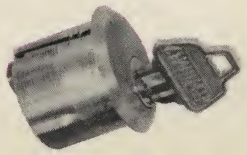
CYLINDERS *for mortise or rim locks*



A Cylinder —5/32" square tail piece



AF Cylinder —¼" x 1/16" flat tail piece



B Cylinder—length and cam as required

CHALLENGER

INSTALLATION AIDS

Complete set of boring jig, bits and accessories for boring precision holes fast and easy. Compactly contained in sturdy, fitted metal box.

Cat. #	Lock Series	Backsets		
1100	500, 800, 900	2⅜"	2¾"	5"
1101	500, 800	2⅜"		5"
1102	500, 800, 900	2⅜"	2¾"	
1103	500, 800	2⅜"		
1104	800, 900		2¾"	

HOW TO ORDER CHALLENGER LOCKSETS

When preparing an order, the data should be presented in the following sequence:

(1) **Quantity** — Indicate quantity by number (for full cases, order in multiples of 10).

(2) **Catalog No.** — Indicate by function numbers as shown in charts.

(3) **Design** — Indicate desired design.

(4) **Finish** — Indicate U. S. Standard finish. When split finish is needed, mark outside finish first, followed by inside finish.

(5) **Hand** — Challenger locksets are fully reversible, however, the hand of the door should be specified to insure that the cylinder is in the correct upright position when the lockset is installed.

When conditions require, indicate special backsets, fastenings, door thickness or construction, or keying arrangements.

Examples of orders:

60 — 800S Venus 3

20 — 810S Holiday 10 x 26

40 — 860DE Concave 26D RH-5" backset KA/2

10 — 950DP Regent 10 RHRB STMS 2½" doors

FINISHES *(U. S. Standard)*

	Natural metal finishes		Plated finishes
3	Polished brass, lacquered	26	Polished chromium plated
4	Dull brass, lacquered	26D	Dull chromium plated
9	Polished bronze, lacquered	19	Dull black
10	Dull bronze, lacquered		
10B	Oil rubbed bronze		
28	Satin anodized aluminum, waxed		

for years, one of the makers of the world's finer locks.

CHALLENGER LOCK CO., INC.

4865 EXPOSITION BLVD., LOS ANGELES 16, CALIFORNIA
2201 WALNUT ST., GARLAND, TEXAS

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